

Discovery

THE JOURNAL OF SCIENCE

VOLUME XXVI

Editor: TONY LOFTAS
Mercury House, Waterloo Road,
London, S.E.1.

PROFESSIONAL & INDUSTRIAL PUBLISHING CO. LTD.

- Allison, Dr A. C., *The lysosome*, July 8
Andrews, Dr E. H., *New uses for polymers*, Nov 47
- Barker, Dr S. A., *Radiation processing*, Mar 18
Barker, Dr S. A., *Hormone action and activity*, Nov 30
Barlow, Professor H. E. M., *Bending wave-guides—breakthrough in communications*, Aug 28
Barnes, L. W. C. S., *Project HARP: into space from a gun*, Jan 39
Bastin, Dr J., *The temperature of the Moon*, Nov 17
Bauer, Dr D. J., *Smallpox chemotherapy*, Feb 40
Bingham, A. E., *Hovercraft—the versatile vehicle*, June 36
Board, P. A., and T. M. Collins, *Physical forces in marine fouling*, May 14
Brandon, Dr D. G., *Seeing individual atoms*, Aug 22
Broadbent, D. E., *Making the choice*, May 39
Buchan, Dr S., *Balancing the world's water budget*, Jan 10
- Cahn, Professor R. W., *What is materials science?*, July 41
Calne, R. Y., *Organ transplantation*, Mar 28
Charap, Dr J. M., *Towards the quark*, June 16
Chernyshov, Dr V. I., *Adapting to new environments*, Aug 16
Clarke, S. L. H., *Auto-instrumentation*, Apr 41
Cohen, Professor J., *Preference, choice and money values*, July 19
Collins, D. M., *Prehistoric art*, May 32
Collins, T. M., and P. A. Board, *Physical forces in marine fouling*, May 14
Creer, Dr K. M., *Tracking the earth's continents*, Feb 34
Croome, Angela, *Space diary*, Jan 8
Croome, Angela, *Ministry of new ideas*, June 7
- Davies, Dr R. D., *A new look at our Galaxy*, June 30
Dobson, K. G., and I. A. M. Watson, *New forms of output*, May 42
Doll, Dr R., *The changing pattern of cancer*, Sept 34
- Ehrlich, Dr G., *Behaviour of atomically clean surfaces*, Nov 24
Essen, Dr L., *New orders of accuracy*, Jan 43
- Fiedler, Professor F. E., *Leadership—a new model*, Apr 12
Friedman, B., *Science on the Moon*, Nov. 12
Finney, J. W., *Science policy in the U.S.A.*, Dec 11
Firsoff, V. A., *How old are the galaxies?*, Feb 20
Firsoff, V. A., *Is the universe expanding?*, Apr 18
- Gabor, Professor D., *Unborn Instruments*, Sept 38
Gibson, Professor A. F., *A new method of amplifying sound?*, Jan 34
Ginsburg, M.P., D., *Winston Spencer-Churchill F.R.S.*, Mar 7
Greatrex, F. B., *Reducing the annoyance from aircraft noise*, May 26
Gwynne, P., *Time reversal*, Oct 28
- Hadjimarkos, Professor D. M., *Trace elements and tooth decay*, July 36
Hall, Professor A. R., *The history of time*, Oct 11
Haneman, Dr D., *The action of tranquilizers*, Aug 34
Herberg, Dr L. J., *Drive and the brain*, Feb 8
Heyns, Professor O. S., *Abdominal decompression: a better start to life?*, June 11
Higgins, Dr G. T., *Metals for the space age*, Aug 40
- Hughes, A. M., *Optics or ignorance?*, June 42
Hutchinson, Professor Sir J., and Dr D. Wilman, *The strategy of food production*, May 20
- Johnstone, P., *The Neolithic fleet*, July 14
Jones, Professor R. V., *Mechanical design in instruments*, Mar 44
- King-Hele, D. G., *Erasmus Darwin—scientist and inventor*, Apr 7
Klemm, Professor W. R., *Animal hypnosis*, Nov 35
Kolbuszewski, Professor J., *Time and travel*, Oct 46
Kolff, Dr W. J., and Dr A. Sen-Gupta, *Synthetic substitutes for internal organs*, Mar 38
- Lawther, Dr P. J., *Air pollution*, Dec 14
Lee, Professor D. M., *Psychology—starting point for educational reform?*, Dec 20
Leyhausen, Dr P., *The sane community—a density problem?*, Sep 27
Ligda, Dr M. G. H., *The laser in meteorology*, July 30
Lovering, Professor W. F., *Real time in computers*, Oct 16
Luyten, Professor W. J., *Stars near the Sun*, Sept 10
- Mack, Professor A. O., *'Spare part' dentistry*, Nov 40
Malina, Dr F. J., *Science on the Moon*, Nov 12
Marechal, Professor A., *Problems of science policy in France*, Aug 12
Martin, Dr D. C., *Role of the learned societies*, Sept 16
Martin, Dr J. W., *New developments with old metals*, Sept 43
Medawar, Dr P. B., *Transplantation: the scientific background*, Mar 22
Mogerman, W. D., *Preventing corrosion*, Feb 14

- Morris, Dr K. R. S., *The ecology of sleeping sickness*, Apr 22
- Payne, Dr L. C., *Tomorrow's hospital—the therapeutic factory*, Apr 36
- Pitt, K. E. G., *The problems of thin film electronics*, July 24
- Pyke, Dr M., *Foods for the future*, Feb 28
- Rogers, Dr G. L., *Teaching technical advances*, Dec 38
- Rudin, Dr S. A., *The psychology of nations*, June 22
- Sachtler, Professor W. M. H., *Towards a theory of catalysis*, Jan 16
- Sciama, Dr D. W., *K-mesons, time reversal and cosmology*, May 8
- Sen-Gupta, Dr A., and Dr W. J. Kolff, *Synthetic substitutes for internal organs*, Mar 38
- Snow, Lord, *Ministry of new ideas*, June 7
- Sterling, H. F., *Towards a perfect crucible*, Apr 30
- Sweeney, Professor B.M., *Do cells have clocks?* Oct 34
- Tarlo, Dr L. B. H., and B. J., *The origin of teeth*, Sep 20
- Thomson, Dr J., *New ways of measuring*, Feb 46
- Treisman, Dr M., *The psychology of time*, Oct 40
- Trethowan, Professor W. H., *Sympathy pains*, Jan 30
- Vonnegut, Dr B., *Thundercloud electricity*, Mar 12
- Walker, B. S., *Machines for teaching*, Dec 33
- Ward, Professor A. G., *Leather*, Jan 22
- Watson, I. A. M., and K. G. Dobson, *New forms of output*, May 42
- West, Professor J. C., *Time and machine control*, Oct 22
- White, Dr R. J., *Isolating the brain*, Mar 34
- Willis, N. E., *Teacher or technician?*, Dec 25
- Wilman, Dr D., and Professor Sir J. Hutchinson, *The strategy of food production*, May 20
- Wolpe, Professor J., *Behaviour therapy*, Aug 7
- Young, Dr D. A., *Graphite*, Dec 44

SUBJECT INDEX

- Abdominal decompression, June 11 et seq; during pregnancy, June 12, 13; in labour, June 13, 14; oxygen supply, June 13 et seq; tests on babies, June 13
- Abscisin hormones, May 7
- Acclimatization, Aug 16 et seq
- Acetylcholine, Aug 37
- Achievement maturation, June 22 et seq
- Acoustic amplifier, Jan 36 et seq
- Aden, evolution of Gulf, Jan 6
- Adrenocorticotrophic hormone (ACTH), Nov 30 et seq; MSH within, Nov 31
- Aerial, new low cost, Feb 5
- Aerosol observable by lidar, July 34, 35
- Affiliation motives, June 22, 27, 28
- Agriculture: "agribusiness", Feb 29 et seq; exploitive and progressive, May 22
- Aircraft noise, reduction of annoyance from, May 26 et seq
- Air cushion system, June 37
- Air pollution, Dec 14 et seq; combinations of pollutants, Dec 15; concentrations of, Dec 15, 16
- Alaska, earthquake in, Jan 7
- Alcohol detectors, Sept 41
- Alkali metals and graphite compounds as superconductors, May 6
- Alpha rhythms and the eyes in EEG, Sep 7
- Andromeda Nebula, study of, June 35
- Amino acid in collagen, Jan 23 et seq
- Amplification of sound, new methods, Jan 34 et seq
- Animal hypnosis, Nov 35 et seq
- Animal population censuses, new technique, May 7
- Antenna development, Mar 45
- Antiviral drugs and smallpox, Feb 44
- Ape-man, Chinese, Oct 5
- Apollo space flights, Feb 4; June 6; July 6; Aug 5; Sep 7; Oct 5; Dec 7; and space medicine, Nov 5
- Ariel 6 satellite, Feb 7
- Art, prehistoric, May 32 et seq
- Asbestos and damage to cells, July 13
- Aspidin, Sept 21, 22, 24, 25
- Astatic magnetometer, Feb 38
- Astronauts: and measurement of Moon's temperature, Nov 22; chemosynthesis and, Nov 9; gloves for, Sept 17
- Astronomy and Moon studies, Nov 14
- Astrophysical studies and the Moon, Nov 15
- Atlas rockets, use of titanium alloys in, Aug 44
- Atomically clean surfaces, Nov 24 et seq; activity of atmosphere, Nov 25, 26; changing atomic arrangement, Nov 27; elimination or separation of impurities, Nov 26, 27; in space, Nov 29; reactivity and atomic environment, Nov 27, 28; work function, Nov 28, 29
- Atomic clocks, Jan 45; Feb 46, 47; Oct 14, 15
- Atomic standards of length and time, Jan 44, 45; atomic beam technique, Jan 45; values of atomic units, Jan 46, 47
- Atomic structure: nuclei, Dec 5; of metals, Aug 22 et seq; probing, Aug 25, 26; theory of, June 16
- Aurignacian art, May 33 et seq
- Aust forming process, Sept 44, 45
- Auto-analysis, Apr 41, 42
- Autografts, May 23
- Auto-instrumentation, Apr 41 et seq
- Automatic machine control, development of, Oct 23, 26
- Automatic playback units, May 44
- Automation in hospitals, Apr 37 et seq
- Balances, precision, Feb 48, 49
- Band-saving systems for cables, Sept 41
- Barnacles and marine fouling May 15 et seq
- Baryons, June 18, 19
- Bat, new British species of, Feb 4
- Behaviour therapy, Aug 7 et seq; deep relaxation, Aug 10, 11; meaning of, Aug 9; systematic desensitization, Aug 10
- Bernoulli's principle, July 20
- Beryllium, Aug 41, 42, 44
- Biological clocks, Oct 35 et seq; and length of day, Oct 38, 39; and phases of moon, Oct 39; and navigation of birds and fishes, Oct 37, 38; resetting of rhythm, Oct 36 et seq
- Black Arrow space launcher, Dec 9
- Black Knight research rocket, Dec 9
- Blood vessels, effect of enudotoxin shock on, May 6
- Blue Streak booster, June 4; Dec 9
- Bone, origin of, Sept 20 et seq; aspidin, Sept 21, 22
- Brain: blood circulation problem, Mar 35 et seq; drive and, Feb 8 et seq; isolation of, Mar 34 et seq; transplantation of tissue, Mar 35; uses of brain transplantation, Mar 37
- Bridges and corrosion, Feb 14, 15
- Bristleworms and marine fouling, May 17
- Bronchitis, chronic, and air pollution, Dec 16, 17
- Bubbles as marine food supply, May 6
- Burglar alarms, ultra sound system for, Sept 40
- Burkitt's lymphoma, Sept 35, 37
- Cables, coaxial, high frequency, Aug 29 et seq; band-saving systems for, Sept 41
- Calcified tissues, vertebrate, Sept 24, 25
- Cameras: for different speeds, June 43, 44; intermittent, June 44; rotating mirror, June 44
- Cancer, Dec 17, 18; changing pattern of, Sept 34 et seq; desiccation of cells theory, Sept 7; future incidence of, Sept 37; geographical distribution of, Sept 35 et seq; hereditary and racial factors, Sept 37; spread of cell growth, June 6
- Carbonite, clear, and computer memory system, June 6
- Carbon monoxide and air pollution, Dec 18
- Carcinogens, common property between, Nov 7
- Caries, dental, July 36 et seq; Sept 26
- Cascade control, Apr 42, 43
- Catalysis, theory of, Jan 16 et seq; choice of catalysts, Jan 20; inorganic compounds as catalysts, Jan 19, 20; metal catalysts, Jan 18, 19; operation of catalysts, Jan 16, 18
- Cathodic protection, Feb 15 et seq
- Cats, study of, and community problems, Sept 27 et seq
- Censuses of animal population, new techniques, May 7
- CERN: and moon studies, Nov 16; protein synchrotron, Oct 32
- Charcoal filter cigarettes, Jan 6
- Charge conjugation symmetry or invariance, June 19, 20; Oct 29 et seq
- Chemosynthesis and life in spacecraft, Nov 9
- Chicken feed for darker yolks, Oct 5
- Chlorpromazine, Aug 36 et seq
- Choice of action, May 39 et seq
- Choice, preference and money values, July 19 et seq
- Chromatography, vapour phase, Feb 49
- Chronographs, Oct 13
- Churchill, Sir Winston, Mar 7 and air defence, Mar 8, 9; and atom bomb, Mar 9, 10; and secret weapons, Mar 9; anti-U-boat warfare, Mar 9; scientific humanism, Mar 10
- Circadian rhythms, Oct 36
- Clocks: atoms, Jun 45; Feb 46, 47; Oct 14, 15; biological, Oct 35 et seq; early mechanical, Oct 12, 13; 'internal', Oct 41 et seq; neural, Oct 44, 45; pendulum, Oct 12 et seq
- Clouds, lidar observation of, July 33, 34
- Collagen in animal skin, Jan 23 et seq; fibrils, Jan 25, 26
- Colour television, Sept 41
- Comet: Ikeya-Seki, Dec 5; interception proposal, ESTec, June 5

- Communication, new instruments for, Sept 41
- Communications satellites, Apr 4; June 4; Aug 30; Sept 41
- Community problems, study of cats and, Sept 27 et seq
- Computers: and programmed instruction, Dec 28, 29, 36, 37; and saccharin molecule structure, Sept 9; digital, and direct digital control, Apr 43, 44; educational, Dec 34, 36; for teaching reading, June 5; Government's plans for computer industry, April 4; in hospitals, Apr 37, 38, 40; logic teaching, Dec 33 et seq; memory-centred processor, June 6; readout by television monitor, June 4; real time in, Oct 16 et seq
- Concord* supersonic airliner and radiation hazards, Aug 5
- Corrosion, prevention of, Feb 14 et seq; impressed electric currents, Feb 17; prediction of resistance, Feb 18; resistant alloys, Feb 17
- Corticosterone, Nov 30
- Cosmology, K mesons, time reversal and, May 8 et seq
- Cosmos* spacecraft, Jan 8
- COSPAR, Feb 4
- Cotton farming and abscisin spraying, May 7
- Couvade: ritual, Jan 32, 33; syndrome, Jan 30, 32, 33
- Cradle hoods, prehistoric, Oct 7
- Crash impacts, tolerance of human body to, Dec 5
- Crime, new instruments for fighting, Sept 39, 40
- Crucibles: methods of melting, Apr 31; new type of, Apr 31, 32; perfection of, Apr 30 et seq
- Crystal oscillators, Oct 14
- Crystals, graphite, Dec 45 et seq; growth of single, Apr 33; quartz, Oct 14
- Darwin, Erasmus, Apr 7 et seq; and Lunar Society, Apr 8; and meteorology, Apr 10, 11; as physician, Apr 8, 9; as poet, Apr 9; chemical knowledge, Apr 8; constructor of artesian well, Apr 9, 10; geological knowledge, Apr 9; practical engineering, Apr 10
- Data recorder, Mar 47
- Deaeration and corrosion, Feb 18
- Decompression, underwater experiments, Dec 5
- Deep-sea exploration, pressure vessels for, Aug 4
- Dehydrated cells and cancer, Sept 7
- Dental caries, July 36 et seq; Sept 26
- Dental prosthetics, modern, Nov 40, 41
- Dental replacements, Nov 40 et seq; immediate, Nov 42
- Dentine, Sept 20 et seq; secondary, Sept 25, 26; pleromic, Sept 25, 26; tubercles, Sept 21 et seq
- Dentures: early, Nov 40; full, 41; implant, Nov 42; linings, Nov 41; partial, Nov 41, 42, 44; removable bridges, Nov 42, 44
- Desensitization, systematic, Aug 10
- Diamant* satellite, Dec 9
- Dietary analysis and computers, Apr 40
- Digestion and lysosomes, July 10, 11, 13
- Dinosaur, fossil, discovery, Aug 6
- Discovery*, R.R.S., *SOND* cruise, Oct 7
- Dissociation and hypnosis, Nov 38, 39
- Diving, deep, Apr 5
- DNA, July 8
- Drive, study of, Feb 7 et seq; controlling drive, Feb 11, 12; drive centres in brain, Feb 8, 9; drive-reduction theory, Feb 8, 9; glucostatic hypothesis, Feb 11; sexual drive, Feb 11
- Drugs: antiviral, Feb 44; as semiconductors, Aug 37, 38; electrical properties of drug action, Aug 38; 'life-space' apparatus for testing, Feb 6; tranquilizer, Aug 34 et seq; Nov 36
- Duration, measurement of, Oct 11
- Early Bird* commercial communications satellite, Apr 4; June 4; Aug 30; Sept 41
- Earth: and Moon studies, Nov 15; early life on, June 5; expansion of, Feb 37, 38; Aug 4; supercontinents, Feb 36, 37; tracking continents, Feb 34 et seq; universal constants, Feb 38, 39
- Earthquake: and explosions, Mar 4; in Alaska, Jan 7
- Echo sounding, Jan 35
- Ecology of sleeping sickness, Apr 22 et seq
- Edison Responsive Environment System, June 5
- Education: psychology and educational reform, Dec 20 et seq; teacher or technician, Dec 25 et seq; teaching machines, Dec 33 et seq; teaching technical machines, Dec 38 et seq
- Einstein's principle of equivalence, May 11
- Elastomers, Nov 47, 48
- ELDO, June 4, 5; Nov 16
- Electrical resonance, Oct 14
- Electricity, thundercloud, Sept 12 et seq
- Electrocardiograms, Dec 7
- Electrodialysis, Mar 43
- Electroencephalograms (EEG), alpha rhythm and the eye, Sept 7
- Electronic aids for fingerprint classification, Sept 39
- Electronic blackboard, May 7
- Electronic model of vestibular apparatus, Apr 6
- Electronic problem simulator, Mar 6
- Electronics, thin film, July 24 et seq
- Electro-osmosis, Mar 43
- Endotoxin shock and blood vessels, May 6
- Entropy, Oct 14, 15
- Environment, adaptation to, Aug 16 et seq; experiments with monkeys, Aug 16 et seq; resistance to cold, Aug 18, 19
- ESRO (European Space Research Organization), June 5; Nov 7, 16; satellite, Feb 5
- ESTec (ESRO'S technical laboratory), comet interception proposal, June 5
- Ethopropazine, Aug 35, 38
- European Consortium for Space Simulation, Nov 7
- Exo-biology and Moon studies, Nov 14
- Exponential growth of population and food problems, Feb 32, 33
- Fat diets and slimming, May 5
- Fermi surface, Dec 48
- Fertility: conservation of, May 22, 23; hormones, Nov 34; increase of, May 23, 24
- Fertilizers, May 23 et seq
- Fibre optics and photography, June 43
- Field-ion microscopes and atomic structure of metals, Aug 22 et seq; Nov 27
- Film: electronics, thin, July 24 et seq; magnetic system and memory module, Mar 4
- Film-making, scientific, abroad and in U.K., June 46
- Films in the classroom, Dec 26, 27
- Fingerprint classification, electronic aids, Sept 39
- Flight control system, new, May 7
- Fluoride and reduction of dental caries, July 36 et seq
- Flying submarines, two-man, May 4
- Fold-belts, study of, and earth's expansion, Aug 4
- Food: culture of algae, Feb 31; investigation of preferences, Apr 6; leaf protein, Feb 31, 32; of the future, Feb 28 et seq; radiation processing of, Mar 19; strategy of production, May 20 et seq; synthetic, Feb 31; yeasts, Feb 31
- Fossil dinosaur discovery, Aug 6
- Fourier transform of fingerprints, Sept 39
- France: atomic and space research, Aug 15; Dec 9; problems of science policy in, Aug 12 et seq; research co-ordination, Aug 12, 13; satellites, Dec 9; training of research workers, Aug 13
- Fruit trees and abscisin spraying, May 7
- Galaxies, age of, Feb 20 et seq; Apr 18 et seq; and K-mesons, May 8, 10 et seq; elliptical, Feb 21; gravitational effects of, May 10 et seq; irregular, Feb 20, 21; population I and II, Feb 21 et seq; spiral, Feb 21 et seq; Apr 20; June 32, 33, 35; stars and, Feb 21 et seq; study of our Galaxy, June 30 et seq
- Gas atoms, study by field-ion microscope, Aug 23, 24
- Gemini* space programme, Feb 4; Aug 5, 6; Sept 7; Nov 5, 9; Manned Orbiting Laboratory, Oct 5; two-manned flights, May 5; July 5; use of titanium alloys in, Aug 44
- Gonyaulax* alga, Oct 35, 36, 38
- Government scientific activities: Ministry of Technology, June 7 et seq; redistribution of, Jan 5
- Graphite, Dec 44 et seq; and alkali metals compounds as superconductors, May 6; anisotropy of, Dec 44, 47; electrical resistance, Dec 48; in materials research, Dec 48; phonons, Dec 46, 47; stacking of planes, Dec 45; thermal conductivity, Dec 47
- Gravitational forces, May 10, 11; June 6
- Gravity, artificial, for spaceships, May 4
- Gulf of Aden, evolution of, Jan 6
- Gun for probe-firing, Jan 39 et seq; comparison with rockets, Jan 40, 41
- Hall effect magnetometers, Feb 8, 49
- Heart, artificial, Mar 39 et seq; boosters, Mar 41; electronic pacemakers, Mar 42, 43; mass tests, Dec 7
- Heat transfer, new rapid method, Apr 4
- Helium-neon gas laser, Mar 46
- Hertzprung-Russell (H.R.) diagram, Feb 22 et seq; Sept 12, 14
- Heterostracan ostracoderms, Sept 20 et seq; secondary tubercles, Sept 25
- High Altitude Research Project (HARP), Jan 39 et seq
- High-speed photography, June 42 et seq
- Histochemical techniques for enzymes in lysosomes, July 9, 11
- History of time, Oct 11 et seq
- Homografts, Mar 23 et seq
- Hormone action and activity, Nov 30 et seq; ACTH, Nov 30 et seq; fertility hormones, Nov 34; hormones as inducers, Nov 33; MSH, Nov 31; pituitary hormones, Nov 30 et seq; steroid hormones, Nov 30, 33, 34; tropic hormones, Nov 30
- Hospitals, future, Apr 36 et seq; automation in, Apr 37 et seq; computers in, Apr 37, 38, 40; operating theatres, new designs, April 39, 40
- Hovercraft, June 30 et seq; air cushion system, June 37; alternation propulsion methods, June 41; military roles, June 39, 40; skirt systems, June 37, 40, 41
- Hydrazine production by irradiation of ammonia, Mar 20
- Hydrofoil boats, June 39
- Hydrogen: clouds, June 34; in our Galaxy, June 30 et seq; masers for time measurement, Jan 45, 46; spectrum, June 30, 31
- Hydrology, Jan 11 et seq
- Hyperons, June 18
- Hypnosis of animals, Nov 35 et seq; anaesthetics, Nov 36; body changes during, Nov 38; electrical stimulation, Nov 36, 37; immobility, Nov 36, 37; manipulation of sensory input, Nov 36 et seq; tranquilizers, Nov 36
- Ice crystal aggregation and electric fields, Feb 5
- Ikeya-Seki comet, Dec 5
- Immunology and transplantation, Mar 23
- Inhibitors and corrosion, Feb 17, 18
- Instrumentation, new frontiers in, Jan 43 et seq; Feb 46 et

- seq; Mar 44 et seq; Apr 41 et seq; May 42 et seq
Instrument output, new forms of, May 42 et seq; in cars, May 43; jet aircraft, May 44
Instruments: large nuclear machines, Mar 45, 46; mechanical design in, Mar 44 et seq; unborn, Sept 38 et seq
Interference fringes, Jan 43, 44
'Internal clocks', Oct 41 et seq: location in nervous system, Oct 45; model, Oct 42, 43, 45
International Astronautical Federation (IAF) Congress, Nov 5, 13
International Council of Scientific Unions (ICSU), Sept 18
International Hydrological Decade, Jan 10 et seq
Intervals, measurements of, Oct 11, 12
Isoprenoid alkanes and early life on Earth, June 5
Isopromethazine, Aug 35, 36
Isotopic spin theory, June 21

Japanese space programme, Dec 9
Jet aircraft; instrument presentation, May 44; noise, May 29, 30

Kidney: artificial, Mar 43; transplantation, Mar 28 et seq
K-mesons, May 8 et seq; June 18; Oct 31, 32; and general theory of relativity, May 10; experimental tests, May 12
Kymographs, Oct 13

Lamellae, crystal, Nov 50
Language laboratories, Dec 27
Lantian Man, Oct 5
Lasers, Dec 39 et seq; and computer memory system, June 6; and measurement of length, Jan 44; Feb 48, 49; and two photon effect, May 6; feedback interferometers, Feb 48; helium-neon/gas, Mar 46; in meteorology, July 30 et seq
Leadership, Apr 12 et seq; group-task situation, Apr 14 et seq; leader-member relations, Apr 14, 17; research programme, April 13 et seq
Learned societies: growth of, Sept 17, 18; international co-operation, Sept 18; present role, Sept 18
Leather, Jan 22 et seq; animal skin, Jan 22 et seq; grain, Jan 26, 28; properties of, Jan 26, 27; synthetic, Jan 25, 27, 28
Leaves, 'sleep movements of', Oct 34, 35
Length, measurement of, Jan 43 et seq; Feb 46, 48
Lidar meteorology, July 31 et seq; measurement of visibility, July 34; short-range transmission and reception, July 33
Liver, cancer of, Sept 37
Logic teaching for computer engineers, Dec 33 et seq
Lunar environment studies, Nov 14
Lunar Excursion Modules (LEM), Nov 5
Lunar geology and geophysics, Nov 14
Lunar International Laboratory (LIL), Nov 13 et seq
Lung cancer, Sept 35; and air pollution, Dec 17, 18
Lungs, artificial, Mar 43
Lunik: Moon photographs, Oct 7; soft Moon landing attempts, Nov 9
Lymphocytes, Mar 23 et seq
Lysosomes, July 8 et seq; and damage to cells, July 11 et seq; sensitivity to oxygen concentrations, July 13; staining techniques, July 9, 10

Mach's principle, Apr 20; May 10
Machine control and time, Oct 22 et seq; regulators, Oct 25; self-adaptive systems, Oct 26; servomechanisms, Oct 25
Magellanic Clouds, Feb 20, 21, 25; June 32, 35
Magnetic coil, record-breaking field, Apr 4
Magnetic film system and memory module, May 4
Magnetometers, Feb 38
Magnetostriction, Jan 37
Maleness, determination of, July 6
Manned Orbiting Laboratory (MOL), Oct 5
Maps: continuous reference instrument, Apr 6; moving display system, Feb 5
Maraging steels, Sept 44, 45
Marine food supply, bubbles as, May 6
Marine fouling, physical forces in, May 14 et seq; effects of flow, May 17; floor and ceiling fouling, May 17, 18; in conduits, May 14, 17, 18; settlement of animals, May 14
Mariner spacecraft, Apr 6; July 6; pictures of Mars, Sept 5; Oct 7, 26
Mars: exploration of, Jan 7; Mariner spacecraft and, July 6; Sept 5; Oct 7, 26; Saturn programme, Jan 7
Martlet space probes, Jan 40 et seq
Masers, hydrogen, for time measurement, Jan 45, 46
Mass: accuracy of fundamental standard, Jan 43; measurement of, Feb 48
Materials science: July 41 et seq; Aug 40 et seq; Sept 43 et seq; Nov 47 et seq; Dec 44 et seq
Matter, fundamental forms of, June 16 et seq; matter and fields, June 17, 18; resonant states of particles, June 20, 21; selection rules, June 19; 'strange' particles, June 18, 19; strong interactions, June 20, 21; symmetries, June 19 et seq; weak interactions, June 19, 20
Measuring, new ways of, Feb 46 et seq
Medicine: and finance, Apr 40; new instruments for, Sept 40, 41
Melanocyte stimulating hormone (MSH), Nov 31
Memory-centred processor for computers, June 6
Memory module and magnetic film system, May 4
Mercury, former moon of Venus? June 4
Mercury spaceflights, Feb 4; July 5; Aug 5, 6; Oct 5; use of titanium alloys in, Aug 44
Metallurgy, scientific, July 41, 42
Metals for space age, Aug 40 et seq; economics of, Aug 44
Metals: new developments with old, Sept 43 et seq; polymers and, Nov 49; strengthening, Sept 43 et seq
Meteorology, lasers in, July 30 et seq; 'searchlight', July 32
Methisazone and treatment of smallpox, Feb 44
Micro-continents, submerged, Nov 7
Micro-electronic integrated circuits in computers, Oct 20
Microscopes: field-ion, Aug 22 et seq; Nov 27; projection, Nov 27
Microwave radiation from superconducting tin layers, Oct 9
Milky Way, June 30 et seq
Miller indices, Nov 27
Ministry of Technology, June 7 et seq
Molnija communications satellites, June 4
Molybdenum and decrease of dental caries, July 39, 40
Money values, preference and choice, July 19 et seq
Monkeys, acclimatization experiments, Aug 16 et seq
Moon: and applied sciences, Nov 15; and studies of man, Nov 14; hot spots, Nov 22; international studies, Nov 16; landing problems, Apr 6; June 6; Oct 9; Nov 9; Dec 7; Lunik photographs, Oct 7; Ranger photographs, Apr 6; July 7; science on, Nov 12 et seq; simulation of conditions on, June 6; solar flares and Moon probes, June 6; surface of, July 7; Oct 9; Nov 5; temperature of, Nov 17 et seq; territorial claims on, Nov 16; volcanoes, Nov 21, 22; Zond photographs, Oct 7
Mouth, cancer of, Sept 35, 37
Mussels and marine fouling, May 17

Nanorchestes Antarcticus, Mar 4
Nautilus, U.S.S.; use of zirconium in, Aug 44
Neolithic boats, July 14 et seq
Neural clocks, Oct 44, 45
Neurosis, treatment of, Aug 7 et seq
Neutrinos, June 17
Nichrome alloy films, July 26, 27
NIMROD accelerator, Oct 30, 32
Noble gases, July 5
Noise, measurement of, May 26 et seq; Noise and Number Index (NNI), May 28; PNdB Scale, May 28
Nuclear energy: and use of zirconium, Aug 44; cheap conversion by cell, Jan 7
Nuclear tests, underground, and earthquakes, Mar 4
Nuffield Science Project, Dec 22

Obturator, Nov 44
Olber's paradox, Apr 18, 19
Orbiter programme, Dec 7
Organ transplantation, Mar 28 et seq; animal transplants, Mar 31, cadaveric transplants, Mar 31; donors, Mar 31; ethics of, Mar 30, 31; synthetic substitutes for internal organs, Mar 38 et seq

Palaeomagnetic studies, Feb 35, 36, 38
Parity symmetry or invariance, June 19; Oct 29 et seq
Pegasus meteoroid-detecting spacecraft, Sept 7
'Perceived noise' scale (PNdB), May 27, 28
Phagosomes and phagocytic cells, July 11, 13
Phenothiazine, Aug 35, 36
Phonons, Dec 46, 47
Photography, high-speed, June 42 et seq; time-lapse, June 43
Piezoelectricity, Jan 34, 35, 37, 38; Feb 46
Pions, or π -mesons, June 18
Pituitary hormones, Nov 30 et seq
Planetary systems, formations of, Sept 14
Plasma instabilities, investigation of, Dec 7
Plastics: and computer memory system, June 6; for denture linings, Nov 41; heart valves, Mar 39; new uses for polymers, Nov 47 et seq
Plastic surgery, Nov 44, 45
Polar wandering curves, Feb 34 et seq
Pollution in river estuaries, Feb 6
Polymerization, Jan 16, 20
Polymers, new uses for, Nov 47 et seq; fatigue problems, Nov 49, 50; improvement of thermal stability, Nov 50; new polymeric solids, Nov 50
Population: density and social hierarchy, Sept 30 et seq; growth and food problems, Feb 32, 33; Nov 5
Position indicator, automatic, Feb 5
Positrons, June 17, 18
Powder metallurgy in strengthening metals, Sept 45, 46
Power motives, June 22, 24 et seq; and psychological disorders, June 25, 26
Précontinent III underwater experiments, Dec 5
Prehistoric art, May 32 et seq; interpretation of, May 37; personal adornment, May 33, 34; sex symbolism, May 34, 36, 37
Prehistoric cradle hoods, Oct 7
Prehistoric roads, Oct 46, 47
Pressure vessels for deep-sea exploration, Aug 4
Programmed instruction, Dec 22, 23, 28, 29, 36; and computers, Dec 28, 29, 36; branching programme, Dec 22; linear programme, Dec 22
Project HARP, Jan 39 et seq
Projection microscopes, Nov 27
Promethazine, Aug 35, 36
Prosthetics, Nov 44; modern dental, Nov 40, 41
Proton radiation satellite, Nov 5
Psammosteids, Sept 21
Psychology: and education reform, Dec 20 et seq; of nations, June 22 et seq; of time, Oct 40 et seq

- Pyrolytic graphite, Dec 44 et seq.; preparation of, Dec 46, 47
- Quantum theory of radiation, Nov 18
- Quarks, June 21
- Quartz crystal and time-control, Oct 14
- Rabbits, hypnosis of, Nov 36, 37
- Radar: and general theory of relativity, Feb 4; for weapon detection, Sept 40; meteorology, July 31, 32
- Radiation: cross-linking polymers, Mar 19, 20; food processing, Mar 19; hazards to supersonic flight, Aug 5; processing, Mar 18 et seq.; treatment and computers, Apr 40
- Radiocarbon dating, May 33
- Radiotelescope aerials, Mar 44, 45
- Ranger flights Apr 6: *Moon* photographs, Apr 6; July 7
- Rats, immunity to poison, Mar 6
- Real-time computers, Oct 16 et seq.
- Redshift, Apr 19 et seq.; Nov 15
- Relativity, general theory of: and K-mesons, May 10; and radar, Feb 4
- RNA, July 8
- Roads: early systems, Oct 47, 48; prehistoric, Oct 46, 47; safety, Sept 41; trade, Oct 46 et seq.
- Royal Society, Sept 16, 17, 19; more applied scientists as Fellows, Jan 6
- Saccharin molecule, structure of, Sept 9
- Safety roads, Sept 41
- Salinity: in deep water, Mar 6; whales and, Mar 6
- Satellites: communications, Apr 4; June 4; Aug 30; life prolonged by heat transfer, Apr 4
- Saturn* launching vehicle, Jan 7; July 6; Nov 5
- Sawfly, survival of prepupae, Feb 5
- Scout* rockets, Feb 7
- Sealab 2* underwater experiments, Dec 5
- Seasons, change of, rocket observations, Mar 6
- Seismology and disarmament, Mar 4
- Selenium and dental caries, July 37 et seq.
- Semi-conductors, production by radiation, Mar 20
- Servomechanisms, Oct 25
- Sex symbolism in prehistoric art, May 34, 36, 37
- Silica and damage to cells, July 11 et seq.
- Sintered Aluminium Powder (SAP), Sept 46
- Skin boats, July 14 et seq.
- Skin, transplantation of, Aug 5
- Skua* weather rockets, Mar 6
- Sleeping sickness: control of, Apr 27, 28; ecology of, Apr 22 et seq.; remedies, Apr 27, 28; spread through Africa, Apr 24 et seq.
- Slimming and fat diets, May 5
- Smallpox: chemotherapy, Feb 40 et seq.; control of, Feb 41, 42; symptoms of, Feb 40 et seq.
- Snowflake formation in thunderclouds, Feb 5
- Snow, Lord, on Ministry of Technology, June 7 et seq.
- Social hierarchy, Sept 27 et seq.
- Solar flares as hazards for spacemen, June 6
- Solarimeters, May 4
- Solitary mammals, Sept 28, 29, 31
- Sound, new method of amplifying, Jan 34 et seq.
- Space diary for 1964, Jan 8; Feb 7
- Space programmes, Jan 7; July 6; Nov 5; Dec 7: priorities in, May 5; U.S. civilian, Aug 5
- Space simulator, Nov 7
- Spiders' web-building, study of, Nov 7
- Stars: and galaxies, Feb 21 et seq.; colour of, Sept 12, 13; determination of distance, Sept 10, 11; luminosity of, Sept 11 et seq.; mapping, Sept 10, 11; near the Sun, Sept 10 et seq.; white dwarfs, Sept 12, 13
- Steels, aust-forming process, Sept 44, 45; maraging, Sept 44, 45; new high-strength, Sept 44, 45
- Stereoregular polymers, Nov 38
- Stereospecific polymerization, Jan 16, 20
- Steroid hormones, Nov 30: release of, Nov 33, 34
- Stimulus generalization, Aug 8, 9
- Stomach cancer, Sept 35, 36
- Sub-atomic particles, separation into groups, July 6
- Submarine, two-man flying, May 4
- Sulphur, new cubic form, July 7
- Sun: luminosity of, Sept 11 et seq.; stars near, Sept 10 et seq.
- Superconducting tin layers, microwave radiation from, Oct 9
- Superconducting stoves in computers, Oct 18, 20
- Superconductors: experiments, May 6; 'layer structure', May 6
- Surfaces, atomically clean, Nov 24 et seq.
- Surveyor* spacecraft, Apr 6; Nov 9; Dec 7
- Symmetries, June 19 et seq.; Oct 29 et seq.
- Sympathy pains, Jan 30 et seq.: origins in antiquity, Jan 32, 33; symptoms, Jan 30 et seq.
- Synthetic foods, Feb 31
- Synthetic leather, Jan 25, 27, 28
- Synthetic substitutes for internal organs, Mar 38 et seq.
- Tantalum for thin film resistors, July 27, 28
- T.D. Nickel, Sept 46
- Teaching and new techniques, Dec 25 et seq.; cine film and projectors, Dec 26, 27, 30; gramophones, Dec 27; projected stills, Dec 26; sound radio, Dec 27; team teaching methods, Dec 30; television, Dec 27, 28
- Teaching machines, Dec 33 et seq.; visual and aural presentation, Dec 36, 37
- Teaching technical advances, Dec 38 et seq.
- Teeth, artificial substitutes for, Nov 40 et seq.; dentine, Sept 20 et seq.; development from tubercles, Sept 22, 25; natural filling, Sept 25, 26; origin of, Sept 20 et seq.; secondary dentine, Sept 25, 26
- Telemetry, Apr 41
- Television, colour, Sept 41; closed-circuit, Dec 27, 28; in schools, Dec 27, 28; monitor for computer readout, June 4
- Temperature of the Moon, Nov 17 et seq.
- Tenderometers, Feb 30, 32
- Thermoplastics, Nov 47
- Thermo-setting resins, Nov 48
- Thin film electrons, July 24 et seq.; capacitors, July 27; chromium films, July 26, 27; conductors, July 25, 26; evaporating units, July 24, 25; masks, July 25, 26; new materials, July 28; preparation of microcircuits, July 24, 25
- Thiopurines, Mar 29
- Thundercloud electricity, Mar 12 et seq.; artificial electric charge experiments, Mar 16, 17; convection, Mar 13 et seq.; experiments in New Mexico, Mar 14, 15
- Time: accuracy of fundamental standards, Jan 43 et seq.; and machine control, Oct 22 et seq.; and travel, Oct 46 et seq.; atomic standards of, Jan 44, 45; continuous time-trace, Oct 13; history of, Oct 11 et seq.; intervals, Oct 11, 12; psychology of, Oct 40 et seq.; reversal, Apr 5; May 8 et seq.; June 19, 20; Oct 28 et seq.
- Time-lapse photography, June 43
- Titanium, Aug 41; alloys, Aug 42, 43; and aerospace, Aug 43, 44; economics of, Aug 4; purity problems, Aug 42
- Titan* rockets, Feb 4; July 5; Aug 44; Oct 5
- Trace elements and tooth decay, July 36 et seq.
- Trade roads, Oct 46 et seq.
- Tranquillizers: action of, Aug 34 et seq.; and hypnosis of animals, Nov 36; chain of command, Aug 36, 37; development of, Aug 36; early, Aug 34 et seq.; electrical properties of drug action, Aug 38
- Transducers for sound amplification, Jan 38
- Transport: new instruments for, Sept 41; revolution in, Oct 49, 50
- Transplantation: brain isolation, Mar 34 et seq.; donor selection, Mar 24, 25, 31; of organs, Mar 28 et seq.; of skin, Aug 5; rejection of transplants, Mar 26, 28, 29; scientific background of, Mar 22 et seq.; tolerance, Mar 26
- Travel: and time, Oct 46 et seq.; future, Oct 50
- Trebalose in saw fly larvae, Feb 5
- Trump Plan, Dec 29, 30
- Tsetse fly and sleeping sickness, Apr 23, 25
- Two photon effect, lasers and, May 6
- U.K.-3 satellite, Jan 5
- Ultrasound: radiography, new instruments for, Sept 40, 41; system for burglar alarms, Sept 40
- Underwater: 'gill' apparatus, Sept 9; living experiments, Dec 5
- Unitary symmetry, June 21
- Universe, theories of expansion, April 18 et seq.: 'big bang' theories, Apr 19, 20; range of gravitation, Apr 21; self-regenerating, Apr 21; steady state hypothesis, Apr 19, 20
- U.S.A., science policy in, Dec 11 et seq.
- Vaccination, Feb 42 et seq.
- Vacuum coating, Apr 33
- Vanadium and dental caries, July 40
- Vapour phase chromatography, Feb 49
- Variolation, Feb 42
- Velocity: measurement, Feb 46, 48; of light, Jan 46
- Venus, Mercury a former moon of?, June 4
- Venuses in prehistoric art, May 36, 37
- Vertebrate calcified tissues, Sept 24, 25
- Vestibular apparatus, electronic model, Apr 6
- Vezere Valley, prehistoric art in, May 33
- Visibility measurement by lidar, July 34
- Visual aids in education, Dec 21 et seq., 36, 37
- Visual perception in space, Aug 6
- Vitallium as dental implement, Nov 42
- Volcanoes: electrification, Mar 15, 16; on Moon, Nov 21, 22
- Voltmeters, digital, Oct 17
- Voskhod* spacecraft, Feb 4; Aug 4; Nov 5; swimming in space, May 5
- Vostok* spacecraft, Aug 4
- Voyager* spacecraft, July 6
- Vulvar motifs in prehistoric art, May 34, 36
- Water: balancing world's budget, Jan 10 et seq.; chemical changes, Jan 12; cycle, Jan 11; evaporation, Jan 12; measurements, Jan 13; rising demand for, Jan 11; salinity of, Mar 6
- Waveguides, bending, Aug 28 et seq.; carrier waves, Aug 30, 31; theory of, Aug 30, 31; transverse standing waves, Aug 30
- Weapon detection, microwave radar system for, Sept 40
- Weather rockets, Mar 6
- Whale concentration and salinity of water, Mar 6
- X-rays: and saccharin molecule structure, Sept 9; automatic diffractometer, Apr 42; diffraction, and metallurgy, July 42; new instruments for, Sept 40; solar, June 6
- Zeeman effect, June 33
- Zirconium, Aug 41: alloys, Aug 43; economics of, Aug 44; in nuclear energy, Aug 44; purity problems, Aug 42
- Zond III* Moon photographs, Oct 7
- Zone melting, Apr 31

BOOKSHELF INDEX

- About Sharks and Shark Attack*, D. H. Davies (Routledge and Kegan Paul), May 52
- Abyss*, C. P. Idyll (Constable), July 50
- Administering Research and Development*, C. D. Orth, e.a. (Tavistock), Nov 60
- Advanced Theoretical Chemistry*, D. E. P. Hughes and M. J. Maloney (Chatto and Windus), Sept xii
- Advances in Gerontological Research* (Academic), May 53
- Advances in Heterocyclic Chemistry: Vol. 3*, ed. A. R. Katritzky (Academic), May 52
- Advances in Quantum Chemistry: Vol. 1*, ed. P. O. Löwdin (Academic), June 55
- Advances in the Study of Behaviour, Vol. 1*, ed. D. S. Lehrman, e.a. (Academic), Dec 61
- Adventures in Mathematics*, D. S. P. Barnard (Pelham), June 53
- Age of Reptiles*, The, E. H. Colbert (Weidenfeld and Nicholson), Mar 58
- Analgetics*, ed. G. deStevens (Academic), Dec 60
- Analog Anthology*, ed. John W. Campbell (Dobson), Dec 58
- Analytical Engine*, The, J. Bernstein (Secker and Warburg), June 54
- Ancient Trackways of Wessex*, H. W. Timperley and E. Brill (Phoenix), June 55
- Angular Correlation Methods in Gamma-Ray Spectroscopy*, A. J. Ferguson (North-Holland), Dec 61
- Animal Hormones*, J. Lees and F. G. W. Knowles (Hutchinson), Aug 52
- Applied Combinatorial Mathematics*, ed. E. F. Beckenbach (Wiley), May 53
- Applications of Spectroscopy to Organic Chemistry*, J. C. D. Brand and G. Eglinton (Oldbourne), Sept xiii
- Archaeology of the Cinema*, C. W. Ceram (Thames and Hudson), Dec 58
- Archimedes in the Middle Ages: Vol. 1, The Arabo-Latin Tradition*, Marshall Clagett (Univ. of Wisconsin), Feb 57
- Architecture of Molecules*, The, Linus Pauling and Roger Hayward (Freeman), Aug 52
- Art of Algebra*, The, R. North (Pergamon), Oct 61
- Art of Judgement*, The, Sir Geoffrey Vickers (Chapman and Hall), July 54
- Assessment of Scientific Speculation*, The, R. A. R. Tricker (Mills and Boon), Aug 52
- Astronomers*, The, C. Roman (Evans), Jan 54
- Automatic Methods in Volumetric Analysis*, D. C. M. Squirrell (Hilger and Watts), Jan 55
- Basic Psychology*, H. H. Kendler (Methuen), Sept ix
- Behaviour of Anthropoids*, The, J. D. Carthy (Oliver and Boyd), May 50
- Beneficial Insects*, Lester A. Swan (Harper and Row), Aug 50
- Berkeley Physics Course, Vol. 1: Mechanics*, C. Kittel, e.a. (McGraw-Hill), Sept xxii
- Beyond Time*, Michel Siffre (Chatto and Windus), Oct 57
- Bill, The Galactic Hero*, Harry Harrison (Gollancz), Dec 58
- Biochemistry and Behaviour*, S. Eiduson, e.a. (Van Nostrand), Apr 25
- Biochemistry and Physiology of Protozoa: Vol. 3*, ed. S. H. Hunter (Academic), June 55
- Biological Effects of Magnetic Fields*, ed. M. Barnothy (Plenum), Mar 59
- Biology*, J. W. Kimball (Addison-Wesley), June 52
- Biomedical Sciences Instrumentation: Vol. 2*, ed. W. E. Murray and P. F. Salisbury (Plenum), Jan 51
- Biosynthesis of Macromolecules*, The, V. A. Ingram (Benjamin), Sept viii
- Birth of the Missile*, The, Ernst Klee and Otto Merk (Harrap), Nov 59
- Black Eros*, Boris de Rachewiltz (Allen and Unwin), Feb 60
- Body Fluids and the Acid-Base Balance*, H. N. Christensen (Saunders), Mar 59
- Boundary Value Problems*, A. G. Mackie (Oliver and Boyd), Sept xxv
- Bridged Aromatic Compounds*, B. H. Smith (Academic), Sept xiii
- Business Data Processing and Programming*, R. H. Gregory and R. L. van Horn (Chatto and Windus), May 53
- Causes and Cures of Neurosis*, The, H. J. Eysenck and S. Rachman (Routledge and Kegan Paul), Sept ix
- Cell Biology*, J. Paul (Heinemann), Sept v
- Cellular Functions of Membrane Transport*, The, J. E. Hoffman (Prentice-Hall), Feb 61
- Cell Structure in the Study of Bacterial Disease*, ed. M. Solorovsky (Rutgers University), Aug 53
- Century of Great Short Science Fiction Novels*, A. ed. Damon Knight (Gollancz), Dec 58
- Charles Darwin and his World*, Julian Huxley and H. B. D. Kettlewell (Thames and Hudson), July 50
- Chemical Foundation of Molecular Biology*, The, R. F. Steiner (Van Nostrand), Aug 53
- Chemical Binding and Structure*, J. E. Spice (Pergamon), Sept xiv
- Chemical Reactor Theory*, K. G. Denbigh (C.U.P.), Sept xvi
- Chemistry and Beyond*, ed. by H. Dingle and G. R. Martin (Wiley), May 51
- Chemistry in the Soviet Union*, J. Turkevich (Van Nostrand), Dec 61
- Claret, Sandwiches and Sin*, Maxim Donne (Heinemann), Apr 60
- Classical Moment Problem*, The, N. I. Akhiezer (Oliver and Boyd), Sept xxv
- Code of Life*, The, Ernest Borek (Columbia), Nov 56
- Collected Papers on Schizophrenia and Related Subjects*, H. F. Searles (Hogarth), May 52
- Communication Systems of the Body*, David F. Horrobin (Basic), Aug 52
- Complex Variable Methods in Science and Technology*, J. Cunningham (Van Nostrand), Nov 60
- Concepts in Physical Science*, Sidney Rosen, e.a. (Harper and Row), Nov 60
- Contributions to Sensory Physiology, Vol. 1*, ed. W. D. Neff (Academic), Sept vii
- Controls of Metamorphism*, ed. W. S. Pitcher and G. W. Flinn (Oliver and Boyd), Nov 60
- Coordination Chemistry*, Fred Basolo and Ronald Johnson (Benjamin), July 55
- Common Cold*, The, Sir Christopher Andrewes (Weidenfeld and Nicholson), Mar 57
- Comparative Inorganic Chemistry*, B. J. Moody (Arnold), Mar 59
- Conquest of the Material World*, The, J. Nef (Chicago), Apr 58
- Continuous Cultivation of Microorganisms*, ed. I. Malek e.a. (Academic), June 55
- Cybernetics and Biology*, F. George (Oliver and Boyd), Apr 54
- Developments of Concepts of Physics*, Arnold B. Arons (Addison-Wesley), Nov 59
- Development of Modern Chemistry*, The, A. J. Ihde (Harper and Row), June 52
- Diamagnetism and the Chemical Bond*, Ya. G. Dorfman (Arnold), Aug 53
- Dictionary of Astronautics*, J. L. Nayler (Newnes), May 52
- Dictionary of Metallurgy*, D. Birchon (Newnes), Nov 60
- Dictionary of Mining*, A. Nelson (Newnes), May 52
- Dictionary of Scientific Units*, A. H. G. Jerrard and D. B. McNeill (Chapman and Hall), Mar 59
- Differential Equations of Mathematical Physics*, N. S. Koshlyakov, e.a. (North-Holland), July 5
- Differential Geometry*, K. L. Wardle (Routledge and Kegan Paul), Aug 53
- Diophantus of Alexandria*, T. L. Heath (Dover-Constable), Aug 53
- Direct Use of the Sun's Energy*, F. Daniels (Yale), Oct 61
- Dynamics of Linear and Non-Linear Systems*, P. Naslin (Blackie), Oct 61
- Dynamics of Rockets and Satellites*, ed. G. V. Groves (North-Holland), Aug 53
- Earth's Crust and Mantle*, The, F. A. Vening Meinesz (Elsevier), Feb 58
- Ecology and the Industrial Society*, ed. G. T. Goodman, e.a. (Blackwell), Aug 53
- Ecology of Soil-borne Plant Pathogens*, ed. K. F. Baker and W. C. Snyder (Murray), Nov 60
- Economics of Nuclear Power*, The, J. A. Hasson (Longmans), June 54
- Eightfold Way*, The, M. Gell-Mann and Y. Ne'eman (Benjamin), Mar 54
- Electrical Interference*, Rocco F. Ficchi (Iliffe), Jan 55
- Electrical Machines*, J. Hindmarsh (Pergamon), Sept xviii
- Electricity and Magnetism*, W. J. Duffin (McGraw-Hill), Oct 61
- Electrodeposition and Corrosion Processes*, J. M. West (Van Nostrand), Sept xv
- Electronic computers*, S. H. Hollingdale and G. C. Toothill (Penguin), Oct 60
- Electrons and Chemical Bonding*, Harry B. Gray (Benjamin), July 54
- Elementary Electrical Network Theory*, D. G. Tucker (Pergamon), Sept xviii
- Elementary Mathematics for Scientists and Engineers*, M. D. Hatton (Pergamon), Aug 53
- Elementary Dynamics of Particles*, H. W. Harkness (Academic), Jan 55
- Elementary Plane Rigid Dynamics*, H. W. Harkness (Academic), Jan 55
- Elementary Programming and Algol*, K. Nichol (McGraw-Hill), Oct 61
- Elements of Cloud Physics*, Horace Robert Byers (University of Chicago), Nov 60
- Elements of Experimental Stress Analysis*, A. W. Hendry (Pergamon), Sept xviii
- Elements of Inorganic Chemistry*, R. A. Plane and R. E. Hester (Benjamin), Oct 61
- Emergence of Biological Organization*, The, H. Quastler (Yale), Feb 61
- Energy and Life*, E. R. Redfearn (Leicester University), Nov 60
- Enjoying Ornithology*, David Lack (Methuen), Oct 58
- Enjoyment of Chemistry*, The, L. Vaczek (Allen and Unwin), June 53
- Environment in Modern Physics*, The, C. W. Kilmister (E.U.P.), Aug 53
- Epidermis*, The, ed. W. Montagna and W. C. Lobitz (Academic), Sept vii
- Equilibrium Theory of Classical Fluids*, The, ed. H. L. Frisch e.a. (Benjamin), Apr 62
- Essays on Physiological Evolution*, ed. J. W. S. Pringle (Pergamon), Sept vii
- Essentials of Biology*, W. F. Wheeler (Heinemann), May 52
- Essentials of Modern Organic Chemistry*, W. A. Bonner and A. J. Castor (Rheinhold/Chapman and Hall), Dec 61
- Evolution of Parasites*, ed. A. E. R. Taylor (Blackwell), July 55
- Experimental Entomology*, K. W. Cummins, e.a. (Reinhold/Chapman and Hall), Sept v
- Exploding Wires: Vol. 3*, ed. William G. Chance e.a. (Plenum), Aug 53
- Expression of the Emotions in Man and Animals*, The, Charles Darwin (University of Chicago), Oct 61

- Final State Interactions*, J. Gillespie (Holden-Day), Sept xxii
- First Negatives*, The, D. B. Thomas (H.M.S.O.), Apr 62
- Flora of the British Isles-Illustrations: Vol. 4*, A. R. Clapham, e.a., (C.U.P.), May 52
- Floral Biology*, Mary S. Percival (Pergamon), Sept iii
- Forest and Savanna*, B. Hopkins (Heinemann), June 55
- Fossil Evidence for Human Evolution*, The, W. E. Le Gros Clark (Univ. of Chicago), Mar 57
- Formula Index to NMR Literature Data: Vol. 1*, ed. M. G. Howell, e.a. (Plenum), July 55
- Frameworks for Dating Fossil Man*, K. P. Oakley (Weidenfeld and Nicolson), Feb 58
- Fresh Water from the Sea*, A. Girelli (Pergamon), July 55
- Freshwater Life of the British Isles*, The, John Clegg (Warne), Oct 60
- Freshwater Microscopy*, W. J. Garnett (Constable), Dec 60
- Fuels and Fuel Technology*, W. Francis (Pergamon), Sept xvi
- Fundamental Phenomena in the Materials Sciences: Vol. 1*, ed L. J. Bonis and H. H. Hausner (Plenum), Sept xv
- Fungal Genetics*, J. R. S. Fincham and P. R. Day (Blackwell), Sept vi
- Gas Purification Processes*, ed. G. Nonhebel (Newnes), Sept xvi
- Gateway to Abstract Mathematics*, A. E. A. Maxwell (C.U.P.), Dec 60
- Gene Action*, P. F. Hartman and S. R. Suskind (Prentice-Hall), Mar 58, Sept vi
- General Chemistry*, Luder, e.a. (Saunders), Sept xii
- General College Geology*, A. J. Eardley (Harper and Row), Sept xxii
- Generalized Hypergeometric Series*, R. P. Agarwal (Asia), Nov 60
- General Parasitology*, V. A. Dogiel (Oliver and Boyd), Feb 61
- Genetic Code*, The, I. Asimov (Murray), Jun 53
- Genetics of the Norway Rat*, R. Robinson (Pergamon), Dec 60
- Graded Problems for Electrical Engineers*, D. W. Hindle and K. H. Smith (Heywood), Aug 53
- Grazing in Terrestrial and Marine Environment*, ed. D. J. Crisp (Blackwell), Feb 61
- Handbook of Paleontological Techniques*, B. Kummel and D. Raup (Freeman), Sept xxii
- Heat Bibliography 1964*, ed. I. Murray. (H.M.S.O.), Aug 53
- High-Intensity Ultrasonics*, Basil Brown and John E. Goodman (Iliffe), Jul 54
- Histochemistry of the Skin — Psoriasis*, A. Jarrett and R. I. C. Spearman (E.U.P.) Feb 61
- History of the Concept of Valency to 1930*, The, W. G. Palmer (C.U.P.), Nov 59
- Hovercraft*, Angela Croome (Brockhampton), Jan 52
- Human Chromosome Methodology*, ed. J. J. Yunis (Academic), Aug 53
- Human Diversity*, Kenneth Math (Oliver and Boyd), Feb 60
- Human Growth and the Development of Personality*, J. H. Kahn (Pergamon), Oct 58
- Hundred Years of Chemistry*, A. A. Findlay (Duckworth), Apr 62
- I. R.—Theory and Practice of Infrared Spectroscopy*, Herman A. Szymanski (Plenum), Jul 55
- Ice, Ships and Men*, J. Euler (Abelard-Schuman), Jan 54
- Identification of Flowering Plant Families*, The, P. H. Davis e.a. (Oliver and Boyd), Jun 54
- Imprinting and Early Learning*, W. Sluckin (Methuen), Sept ix
- Inside the Black Room*, J. Vernon (Souvenir), May 52
- Interpreted Infrared Spectra: Volume 1*, H. A. Szymanski (Plenum), May 52
- Introduction to Applied Thermodynamics*, R. M. Helsdon (Pergamon), Sept xx
- Introduction to Astrophysics: The Stars*, J. Dufay (Newnes), June 55
- Introduction to Chemical Pharmacology*, R. B. Barlow (Methuen), Jan 55
- Introduction to Chromatography*, An, D. Abbott and R. S. Andrews (Longmans), Mar 57
- Introduction to Comparative Entomology*, R. M. Fox and J. W. Fox (Reinhold/Chapman and Hall), Sept v
- Introduction to Electronics and Telecommunications*, An, G. L. Hodgkinson (Cassell), Sept xviii
- Introduction to Embryology*, An, B. I. Balinsky (Saunders), Dec 60
- Introduction to the Language Laboratory*, J. D. Turner (U.L.P.), Mar 59
- Introduction to Lattice Theory*, D. E. Rutherford (Oliver and Boyd), Sept xxvi
- Introduction to Modern Biochemistry*, P. Karlson (Academic), Sept xviii
- Introduction to Modern Chemistry An*, M. J. S. Dewar (Athlone), Sept xiv
- Introduction to Physical Biochemistry*, An, H. B. Bull (Davies), Feb 61, Sept viii
- Introduction to Physical Geography*, Arthur N. Strahler (Wiley), Nov 59
- Introduction to Physics*, A. Kitaigorodsky (Constable), Sept xxii
- Introduction to Plate and Shell Theory*, C. E. Turner (Longmans), Sept xviii
- Introduction to Probability and Statistics*, D. V. Lindley (C.U.P.), Sept xxvi
- Introduction to the Properties of Materials*, D. Rosenthal (Van Nostrand), Sept xv
- Introduction to the Special Theory of Relativity*, An, R. Katz (Van Nostrand), May 51
- Introduction to Structural Dynamics*, John M. Biggs (McGraw-Hill), Sept xviii
- Introductory Russian Course for Students of Science and Technology*, An, R. M. Bakaya and V. I. Balin (Asia), Jun 54
- JWKB Approximation—Contributions to the Theory*, N. and P. O. Fröman (North-Holland), May 53
- Kepler's Dream*, J. Lear (California), Jun 54
- Laboratory First Aid*, K. Guy (Macmillan), Oct 60
- Laboratory Work in Modern Physics*, J. H. Avery e.a. (Heinemann), May 51
- Lady Luck*, W. Weaver (Heinemann), Mar 57
- Laser Abstracts: Vol. 1*, A. K. Kamal (Plenum), Jul 55
- Lectures on Magnetoionic Theory*, K. G. Budden (Blackie), Mar 56
- Lie Algebra and Lie Groups*, Jean-Pierre Serre (Benjamin), Nov 60
- Lie Groups for Pedestrians*, Harry J. Lipkin (North-Holland), Jul 54
- Life in Deserts*, J. C. Cloudsley-Thompson and M. J. Chadwick (Foulis), Feb 60
- Life on Mars*, F. Jackson and P. Moore (Routledge and Kegan Paul), May 51
- Light and Life in the Universe*, ed. S. T. Butler and H. Messel (Pergamon), Oct 60
- Light: physical and biological action*, H. H. Seliger e.a. (Academic), Nov 60
- Linear Differential Equations*, K. S. Miller (Routledge and Kegan Paul), Jan 55
- Living Universe, The: Vol 11, The Animal World*, ed. Herman Gregorie and Paul Alexandre (Nelson), Feb 57
- Loafers of Refuge*, The, Joseph Green (Gollancz), Jul 52
- Long Way from Euclid*, A. C. Reid (Routledge and Kegan Paul), May 51
- Lost Universe, The*, G. Weltfish (Basic), July 54
- Lunar Missions and Explorations*, ed. C. T. Leondes and R. W. Vance (Wiley), May 53
- Magnetic Thin Films*, Ronald F. Soohoo (Harper and Row), Jul 54
- Mammals*, The, Desmond Morris (Hodder and Stoughton), Dec 55
- Man and Africa*, ed. Gordon Wolstenholme and Maeve O'Connor (Churchill), Nov 59
- Man of Double Deed*, L. Davenport (Gollancz), Apr 60
- Man on Another World*, Gosta Ehrensvar (Chicago), Dec 55
- Manned Satellites*, W. F. Hilton (Hutchinson), Aug 52
- Marine Archaeology*, ed. J. du. P. Taylor (Hutchinson), May 52
- Marine Mammals*, Richard J. Harrison and Judith E. King (Hutchinson), Aug 52
- Materials Background to Space Technology*, A. J. Kennedy (Newnes), June 53
- Mathematical Aspects of Physics*, F. Bitter (Heinemann), Mar 57
- Mathematical Problems in Astronautics*, D. Tattersfield (U.L.P.), Jan 55
- Mathematics. A Modern Approach: Book 2*, M. Peters e.a. (Van Nostrand), Dec 61
- Mathematics for Introductory Science Courses: Calculus and Vectors*, Daniel A. Greenberg (Benjamin), Nov 60
- Mathematics and Logic in History and in Contemporary Thought*, Ettore Carruccio (Faber), Jan 54
- Maturation Processes and the Facilitating Environment*, The, D. W. Winnicott (Hogarth), Nov 60
- Mechanics of Machines (Vol. 1)*, H. E. Barnacle and G. E. Walker (Pergamon), Sept xx
- Mechanisms and Dynamics of Machinery*, H. H. Mabie and F. W. Ocvirk (Wiley), Sept xx
- Medical Sound Recording*, J. and V. Graves (Focal), Jun 55
- Metabolism of Insects*, The, D. Gilmour (Oliver and Boyd), May 50
- Methods of Animal Experimentation: Vol. 1*, ed W. I. Gay (Academic), Dec 60
- Methods in Polyphenol Chemistry*, ed. J. B. Pridham (Pergamon), Feb 61
- Michael Faraday*, L. Pearce Williams (Chapman and Hall), Nov 56
- Microbial and Molecular Genetics*, J. R. S. Fincham (E.U.P.), Sept vi
- Modern Science and Technology*, ed. Robert Colborn (Van Nostrand), Oct 57
- Modern Synthetic Reactions*, H. O. House, (Benjamin), Sept xiii
- Molecular Basis of Heredity*, The, A. R. Peacocke e.a. (Butterworth), Sept viii
- Molecular Orbital Theory*, C. J. Ballhausen and H. B. Gray, (Benjamin), Sept xii
- Mossbauer Effect: Principles and Applications*, G. K. Wertheim (Academic), Jan 55
- Multivariate Statistical Analysis for Biologists*, H. Seal (Methuen), Feb 61
- National Collection of Industrial Bacteria*, The Curator of the Torrey Research Station (H.M.S.O.), Mar 59
- Natural History of Aggression*, The, ed. J. D. Carthy and F. J. Ebling (Academic), Apr 54
- Nature of the Planets*, The, V. V. Shanonov (Oldbourne), Mar 59
- Neuropathology and Psychiatry*, G. Morosov and V. Romasenska (Peace), Mar 59
- New Dictionary of Birds*, A. ed. Sir A. Landsborough-Thompson (Nelson), Mar 56
- New Methods of Analytical Chemistry*, R. Belcher and C. L. Wilson (Chapman and Hall), Mar 59
- New System of Chemical Philosophy*, A. J. Dalton (Peter Owen), Jun 54
- New Writings in SF3*, ed. J. Carnell (Dobson), Apr 60
- New Writings in SF6*, ed. John Carnell (Dobson), Dec 58
- Nobel Lectures: Physiology or Medicine 1922-1941* (Elsevier), Nov 60
- Nuclear Structure and Electro-Magnetic Interactions*, ed. N. Macdonald (Oliver and Boyd), Aug 53

- Nuclei and Particles*, Emilio Segre (Benjamin), Jul 54
- Nuclei and Radioactivity*, Gregory R. Choppin, (Benjamin), Jul 54
- Nucleonic Instrumentation*, C. C. H. Washtell and S. G. Hewitt (Newnes), Dec 61
- Nucleotides and Coenzymes*, D. W. Hutchinson (Methuen), Mar 59
- Numbers and Ideals*, A. Robinson (Holden-Day), Nov 60
- Numerical Solution of Partial Differential Equations*, G. D. Smith (O.U.P.), Sept xxv
- Olduvai Gorge 1951-1961: Vol. 1, Fauna and Background*, L. S. B. Leakey (Cambridge), Mar 59
- Optical Astronomy*, C. Ronan (Phoenix), Jan 51
- Ore Deposits*, C. F. Park and R. A. MacDiarmid (Freeman), Sept xxii
- Organic Chemistry*, D. J. Cram and G. S. Hammon (McGraw-Hill), Feb 61
- Organic Chemistry for General Degree Students*, P. W. G. Smith and A. R. Tatchell (Pergamon), Sept xiii
- Organic Chemistry through Experiment*, H. S. Finlay e.a. (Mills and Boon), Jul 54
- Organic Reaction Mechanisms*, R. Breslow, (Benjamin), Dec 61
- Organization for Protein Biosynthesis*, A. Wiseman (Blackwell), Aug 53
- Origins of Prebiological Systems and of their Molecular Matrices*, The, ed. S. W. Fox (Academic), Jun 55
- Organometallic Synthesis: Vol. 1, Transition-metal Compounds*, R. Bruce King (Academic), Oct 61
- Outlook on Space*, F. T. Evans and H. D. Howard (Allen and Unwin), Aug 52
- Oxygen*, M. Ardon (Benjamin), Dec 61
- Oxygen Steelmaking for Steelmakers*, A. Jackson (Newnes), Sept xv
- Pacific Crustacea*, S. W. Tinker (Prentice-Hall), Oct 61
- Pathways in Space*, Bryan Silcock (Phoenix), Jan 51
- Pebbles on the Beach*, The, Clarence Ellis (Faber and Faber), Jul 53
- Penguin Science Survey, 1965, A*, ed. Arthur Garratt (Penguin), Oct 58
- Penguin Science Survey, 1965, B*, ed. S. A. Barnett e.a. (Penguin), Oct 58
- Penguin Survey of Social Sciences, 1965*, ed. Julius Gould (Penguin), Oct 58
- Periodic Correlations*, R. L. Rich, (Benjamin), Nov 60
- Photochemical Origin of Life, The*, A. Dauvillier (Academic), Oct 61
- Photoperiodism and Seasonal Development of Insects*, A. S. Danilevskii (Oliver and Boyd), Apr 62
- Physical Methods in Organic Chemistry*, A. R. Pinder (E.U.P.), Sept xiii
- Physics*, W. E. Hazen and R. W. Pidd (Addison-Wesley), Sept xxii
- Physics of the Ear, The*, T. S. Littler (Pergamon), Aug 53
- Physiology of the Amphibia*, ed. J. A. Moore (Academic), Mar 59
- Plant Cell, The*, W. A. Jenson (Macmillan), Jun 54
- Planets for Man*, Stephen Dole and Isaac Asimov (Methuen), Nov 59
- Plants and the Ecosystem*, W. D. Billings (Macmillan), Jun 54
- Power Travelling-Wave Tubes*, J. F. Gittins (E.U.P.), July 54
- Practical Oscilloscope Handbook*, R. P. Turner (Illiffe), Apr 62
- Practical Physical Chemistry for Sixth Forms*, D. Abbott (Dent), June 55
- Principles of Physical Geology*, A. Holmes (Nelson), Mar 58, Sept xxii
- Probability and Statistics*, H. Freudenthal Elsevier), Jun 54
- Problem of the Minimum of a Quadratic Functional, The*, S. G. Mikhlin (Holden-Day), Jun 55
- Progress in Infrared Spectroscopy: Vol. 2*, ed. Herman A. Szymanski (Plenum), Aug 53
- Progress in Nucleic Acid Research and Molecular Biology: Vol. 3*, ed. by J. N. Davidson and W. E. Cohn (Academic), May 53
- Progress in Oceanography: Vol. 3*, ed. Mary Sears (Pergamon), Oct 61
- Puzzles and Paradoxes*, T. H. O'Beirne (O.U.P.), Dec 56
- Quantum Mechanics in Chemistry*, M. W. Hanna, (Benjamin), Nov 60
- Radio-active Investigations of Oil and Gas Wells*, O. A. Barsukov (Pergamon), Jul 54
- Radiotracer Methodology in Biological Science*, C. H. Wang e.a. (Prentice-Hall), Oct 61
- Rapid Mixing and Sampling Techniques in Biochemistry*, ed. B. Chance, e.a., (Academic), Jun 55
- Rational Use of Dyes in Biology, The*, E. Gurr (Hill), Sept iii
- Recent Advances in Biological Psychiatry: Vol. VII*, ed. Joseph Wortis (Plenum), Jul 55
- Recent Progress in Photobiology*, ed. E. J. Bowen (Blackwell), Aug 53
- Recollections of a Technologist*, R. S. Hutton (Pitman), Jun 52
- Reconnaissance*, A. Mozley (Lewis), May 52
- Red Blood Cell, The. A Comprehensive Treatise*, ed. C. Bishop and D. M. Surgenor (Academic), Sept vii
- Relativistic Theories of Gravitation*, ed. L. Infeld (Pergamon), June 55
- Reproduction in the Insects*, K. G. Davey (Oliver and Boyd), May 50
- Roman Ways in the Weald*, I. D. Margary (Phoenix), May 53
- Rubidium and Caesium*, F. M. Perel'man (Pergamon), Sept xii
- Satellites of the Solar System*, W. Sander (Faber and Faber), Nov 60
- Science as a Cultural Force*, ed. Harry Woolf (John Hopkins), Dec 56
- Science Dictionary in Basic English, The*, ed. E. C. Graham (Evans), May 52
- Science in Russian Culture*, A. Vucinich (Owen), Mar 58
- Science in the Nineteenth Century*, ed. Rene Taton (Thames and Hudson), Oct 58
- Science of Materials*, T. J. Lewis and P. E. Secker (Harrap), Sept xviii, Nov 58
- Science of Science, The*, ed. Maurice Goldsmith and Alan Mackay (Souvenir Press), Jan 52
- Scientific Age, The*, L. V. Berkner (Yale), Apr 50
- Scientific Principles of Crop Protection, The*, Hubert Martin (Edward Arnold), Jan 55
- Scientific Research in Space*, Sir Harrie Massey (Elek Books), Apr 50
- Scientists as Writers*, ed. J. Harrison (Methuen), May 52
- Sets and Groups*, J. A. Green (Routledge and Kegan Paul), Aug 53
- Seventh Galaxy Reader, The*, ed. Frederick Pohl (Gollancz), Jul 52
- Short History of Biology*, A. I. Asimov (Nelson), Jun 54
- Smoking, Health and Personality*, H. J. Eysenck (Wiedenfeld and Nicholson), Aug 52
- Solar Plasma, Geomagnetism and Aurora*, S. Chapman (Blackie), Mar 56
- Some Electrical and Optical Aspects of Molecular Behaviour*, M. Davies (Pergamon), Aug 53, Sept xiv
- Sourcebook on the Space Sciences*, Samuel Glasstone (Van Nostrand), Oct 60
- Soviet Scientist in China*, M. A. Klochko (Hollis and Carter), May 50
- Space-Age Acronyms*, R. C. Moser (Plenum), Apr 62
- Space Physics*, Sir Harrie Massey (Cambridge), Jan 52
- Spatial Ability*, I. Macfarlane Smith (U.L.P.), Jan 54, Sept ix
- Special Theory of Relativity, The*, David Bohm (Benjamin), Aug 50
- Spectroscopy and Structure*, R. N. Dixon (Methuen), Dec 60
- Star Called the Sun, A*, George Gamow (Macmillan), July 54
- Statistical Analysis of Experimental Data, The*, John Mandel (Wiley), Nov 58
- Stereochemistry*, J. Grundy (Butterworth), Jan 54
- Strasburger's Textbook of Botany*, R. Harder, e.a. (Longmans), Sept iii
- Stratigraphy and Life History*, M. Kay and E. H. Colbert (Wiley), Sept xxii
- Structure and Function in Biological Membranes*, Vol. 11, J. Lee Kavanu (Holden-Day), Aug 53
- Structure and Life of Bryophytes*, E. V. Watson (Hutchinson), Sept iii
- Structure of Atomic Nuclei*, C. Sharp Cook (Van Nostrand), May 51
- Structure of Matter, The*, R. W. Christy and Agnar Pytte, (Benjamin), Nov 60
- Structure of Molecules, The*, G. M. Barrow, (Benjamin), Aug 53
- Study of Electric Circuits, Vol. 1*, J. Lagasse (Heywood), Sept xviii
- Sundog*, B. N. Ball (Dobson), Apr 60
- Survey of Progress in Chemistry: Vol. 2*, ed. Arthur F. Scott (Academic), July 54
- Syndrome of Stuttering*, The, G. Andrews and M. Harris (Heinemann), Jun 55
- Systematic Identification Organic Compounds, The*, R. L. Shriner, e.a. (Wiley), Feb 61
- Teach Yourself Horology*, Donald de Carle (E.U.P.), Aug 52
- Technological Society, The*, J. Ellul (Cape), June 53
- Tetrapyrrole Biosynthesis and its Regulation*, June Lascelles (Benjamin), Jan 55
- Theoretical Basis of Inorganic Chemistry*, A. K. Barnard (McGraw-Hill), Sept xii
- Theory of Crystal Dislocation*, A. H. Cottrell (Blackie), Mar 56
- Theory of Magnetism, The*, D. E. Mattis (Harper and Row), Sept xxii
- Theory of Optimum Aerodynamic Shapes*, ed. Professor A. Miele (Academic), Dec 61
- Theory of Sets and Transfinite Arithmetic, The*, A. Abian (Saunders), Dec 61
- Theory of Superconductivity*, J. Robert Schrieffer (Benjamin), Jan 55
- Thermal Conductivity of Gases and Liquids*, N. V. Tsederberg (Arnold), Sept xvi
- Thermal Stress*, ed. P. P. Berham and R. D. Hoyle (Pitman), Sept xx
- Ultrasonic Engineering*, Julian R. Frederick (Wiley), Nov 60
- Universal Algebra*, P. M. Cohn (Harper and Row), Sept xxv
- University Chemistry*, Bruce H. Mahan (Addison-Wesley), Oct 61
- Using the Microscope*, A. L. E. Barron (Chapman and Hall), July 53
- Variational Techniques in Electromagnetism*, L. Cairo and T. Kahan (Blackie), July 54
- Vector Analysis*, S. Simons (Pergamon), Sept xxvi
- Vector Analysis*, B. Spain (Van Nostrand), Sept xxv
- Vibration*, R. E. D. Bishop (C.U.P.), Sept xx
- Viewpoints in Biology: Vol 3*, ed. J. D. Carthy, and C. L. Duddington (Butterworth), Jan 54
- Visual Capabilities in the Space Environment*, ed. C. A. Baker (Pergamon), Dec 61
- Visual Topology*, W. Lietzman (Chatto and Windus), Sept xxvi
- Vitamin B₁₂*, E. L. Smith (Methuen), Sept viii
- Wasp Farm*, H. E. Evans (Harrap), May 52
- Weed Control*, ed E. K. Woodford (Blackwell), June 55
- Wied Ones, The*, ed. H. L. Gold (Dobson), Apr 60
- Wildlife Biology*, R. Dasmann (Wiley), June 53
- Worlds of Science Fiction, The*, ed Robert P. Mills (Gollancz), July 52
- Zoology*, E. L. Cockrum and W. J. McCauley (Saunders), Sept v

